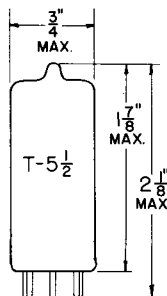


## TUNG-SOL

## PENTODE

## MINIATURE TYPE



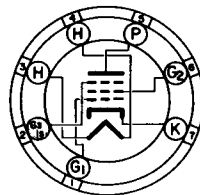
GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER

18 VOLTS 0.10 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

7BK

THE 18GD6 IS A SHARP-CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT FEATURES A 100MILLIAMPERE HEATER AND IS DESIGNED FOR RF AND IF APPLICATIONS IN AC/DC TYPE RADIO RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES<sup>A</sup>

|                               |       |     |
|-------------------------------|-------|-----|
| GRID #1 TO PLATE (MAX.)       | .0035 | μμf |
| INPUT: G1 TO (H+K+G2+G3+I.S.) | 6.0   | μμf |
| OUTPUT: P TO (H+K+G2+G3+I.S.) | 5.0   | μμf |

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM<sup>B</sup>

|   |                  |       |
|---|------------------|-------|
| HEATER VOLTAGE                              | 18               | VOLTS |
| MAXIMUM PLATE VOLTAGE                       | 150              | VOLTS |
| MAXIMUM GRID #2 SUPPLY VOLTAGE              | 150              | VOLTS |
| MAXIMUM GRID #2 VOLTAGE                     | SEE RATING CHART |       |
| MAXIMUM PLATE DISSIPATION                   | 2.5              | WATTS |
| MAXIMUM GRID #2 DISSIPATION                 | 0.6              | WATTS |
| MAXIMUM HEATER-CATHODE VOLTAGE <sup>B</sup> | 100              | VOLTS |

<sup>A</sup>EXTERNAL SHIELD #316 CONNECTED TO PIN 7 (CATHODE)

<sup>B</sup>

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

|   |                                |            |
|---|--------------------------------|------------|
| HEATER VOLTAGE                          | 18                             | VOLTS      |
| HEATER CURRENT                          | 0.10                           | AMP.       |
| PLATE VOLTAGE                           | 100                            | VOLTS      |
| GRID #3 VOLTAGE                         | CONNECTED TO CATHODE AT SOCKET |            |
| GRID #2 VOLTAGE                         | 100                            | VOLTS      |
| CATHODE BIAS RESISTOR                   | 150                            | OHMS       |
| PLATE CURRENT                           | 5                              | MA.        |
| GRID #2 CURRENT                         | 2.0                            | MA.        |
| TRANSCONDUCTANCE                        | 4300                           | $\mu$ MHOS |
| PLATE RESISTANCE (APPROX.)              | 0.5                            | MEGOHM     |
| $E_{c1}$ FOR $I_b = 10 \mu A$ (APPROX.) | -4.7                           | VOLTS      |